

Supplementary Information

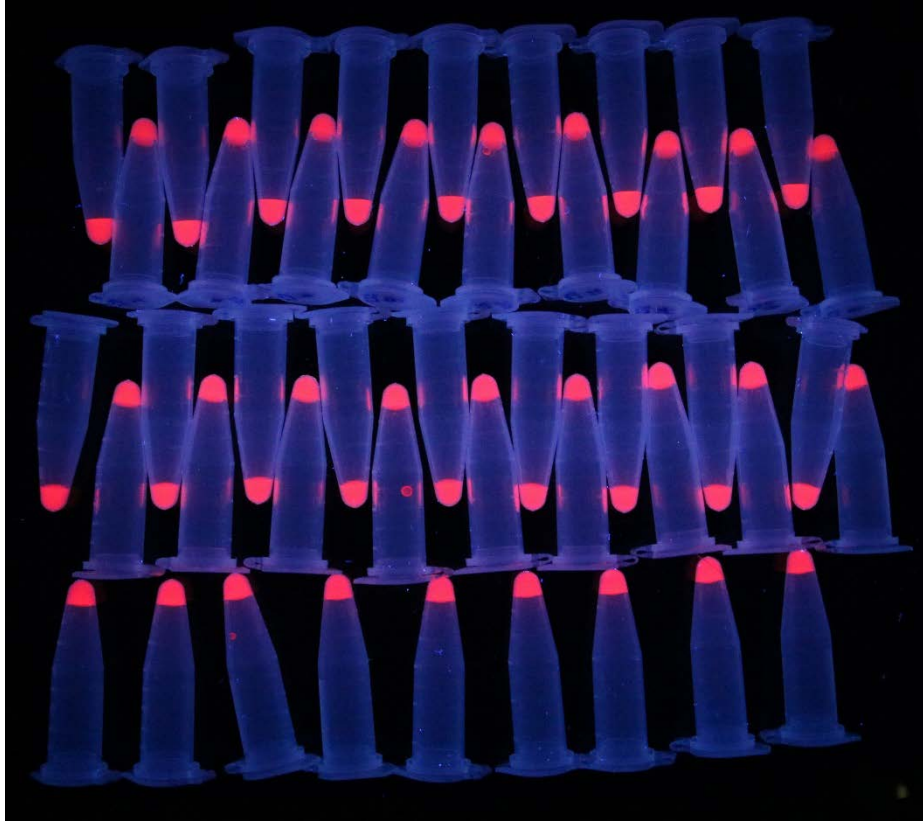
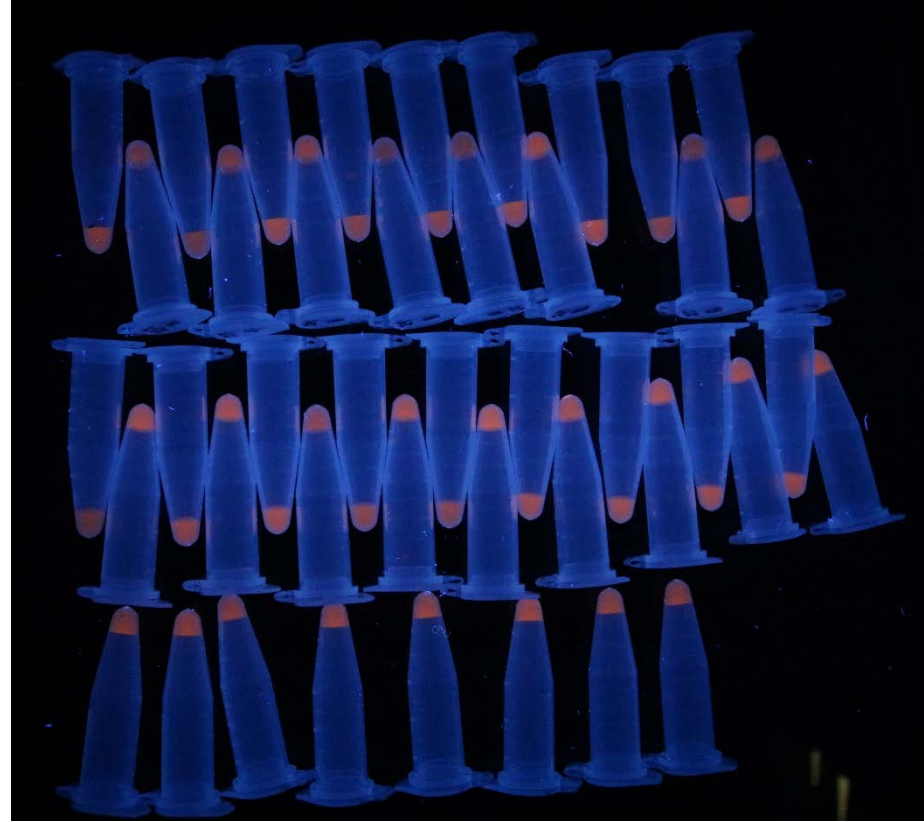
Structural influence on the post-clustering stability of DNA/AgNCs fluorescence

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+ Equal Contribution

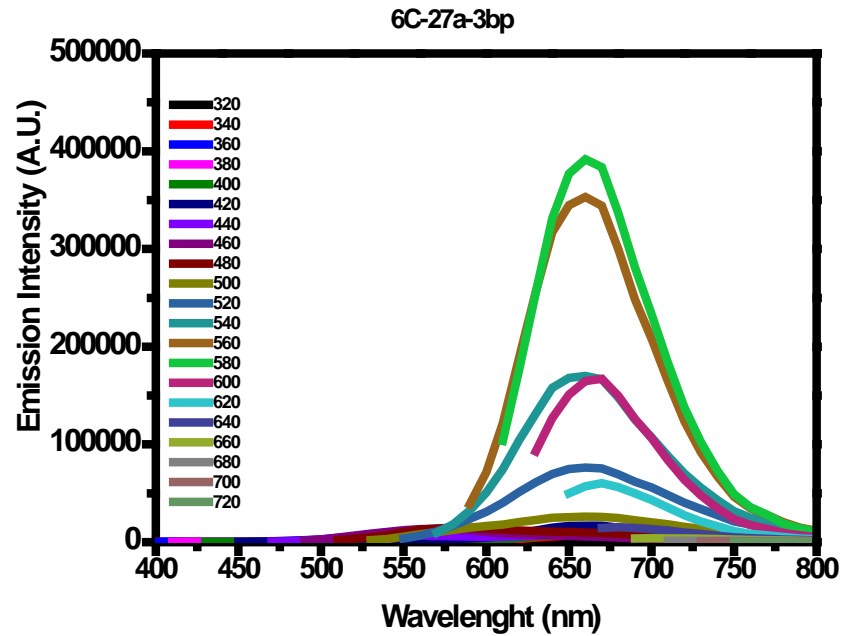
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A**B**

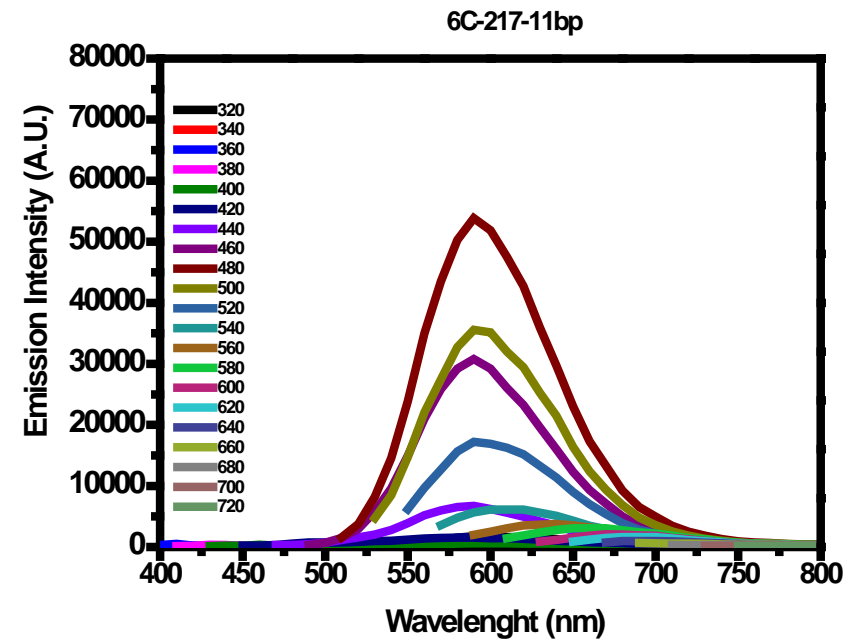
Supplementary Figure 1. Eppendorf tube images under UV (Ex 365nm) illumination. All the samples were prepared on day 0 and were taken just after and hour of synthesis before storing for long term studies. A) DNA 6C-27a-3bp/AgNCs and B) DNA 6C-217-11bp/AgNCs

Day-0

A

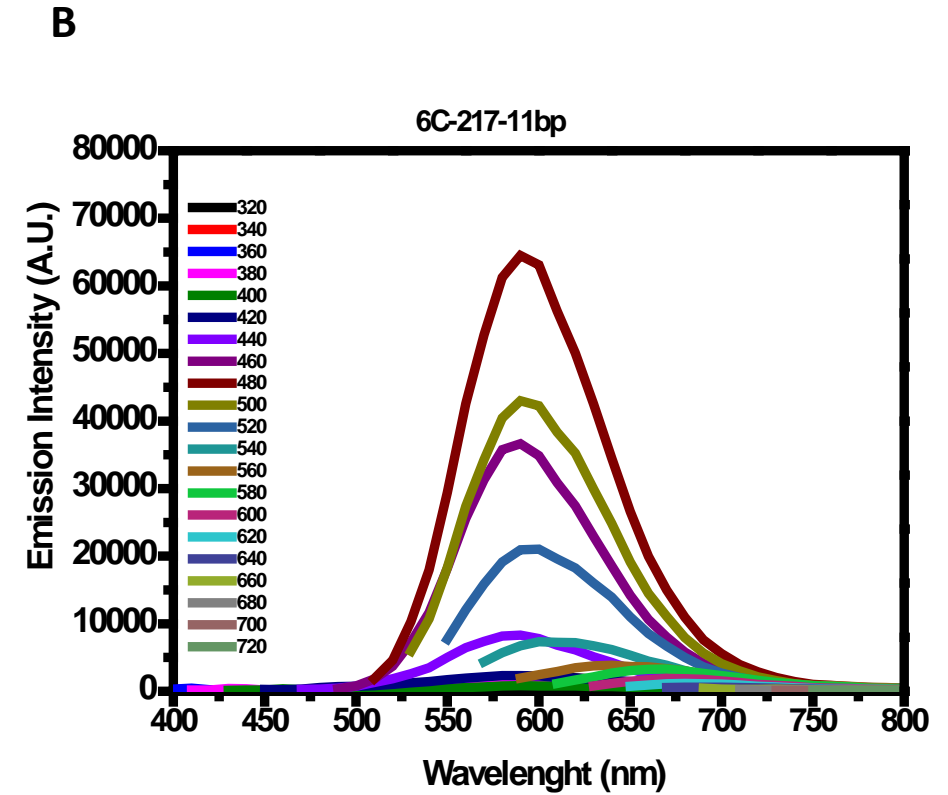
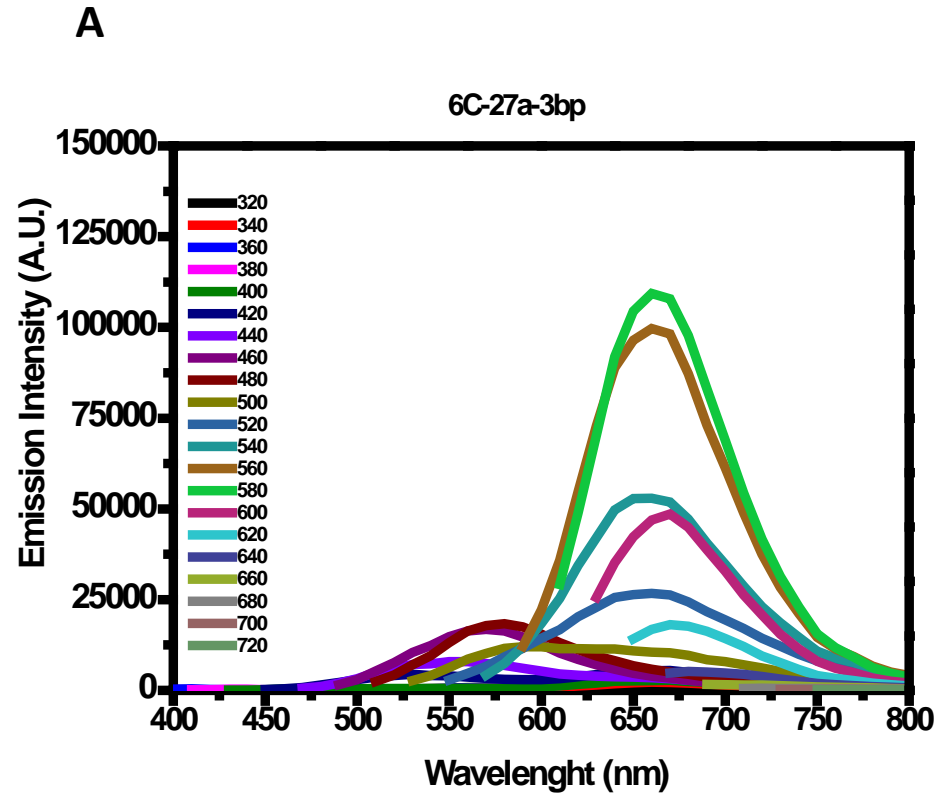


B

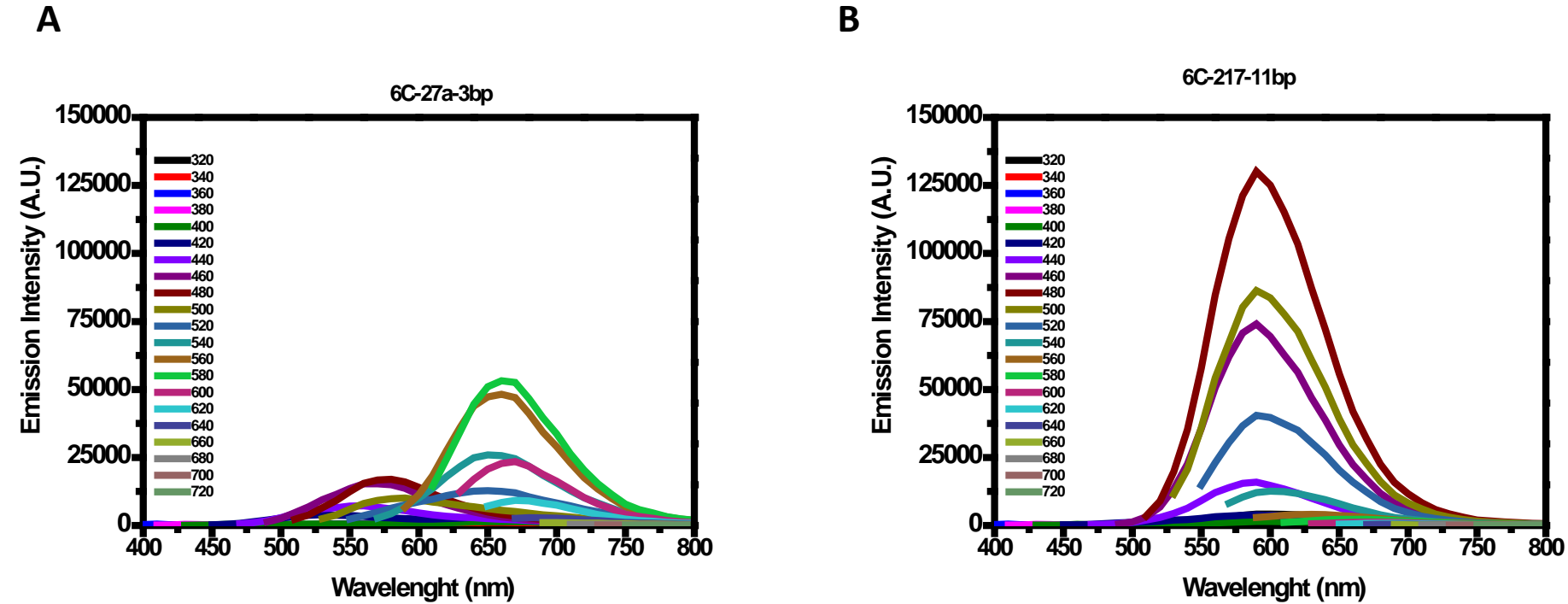


Supplementary Figure 2. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 60mins of post-synthesis referred to as Day 0.

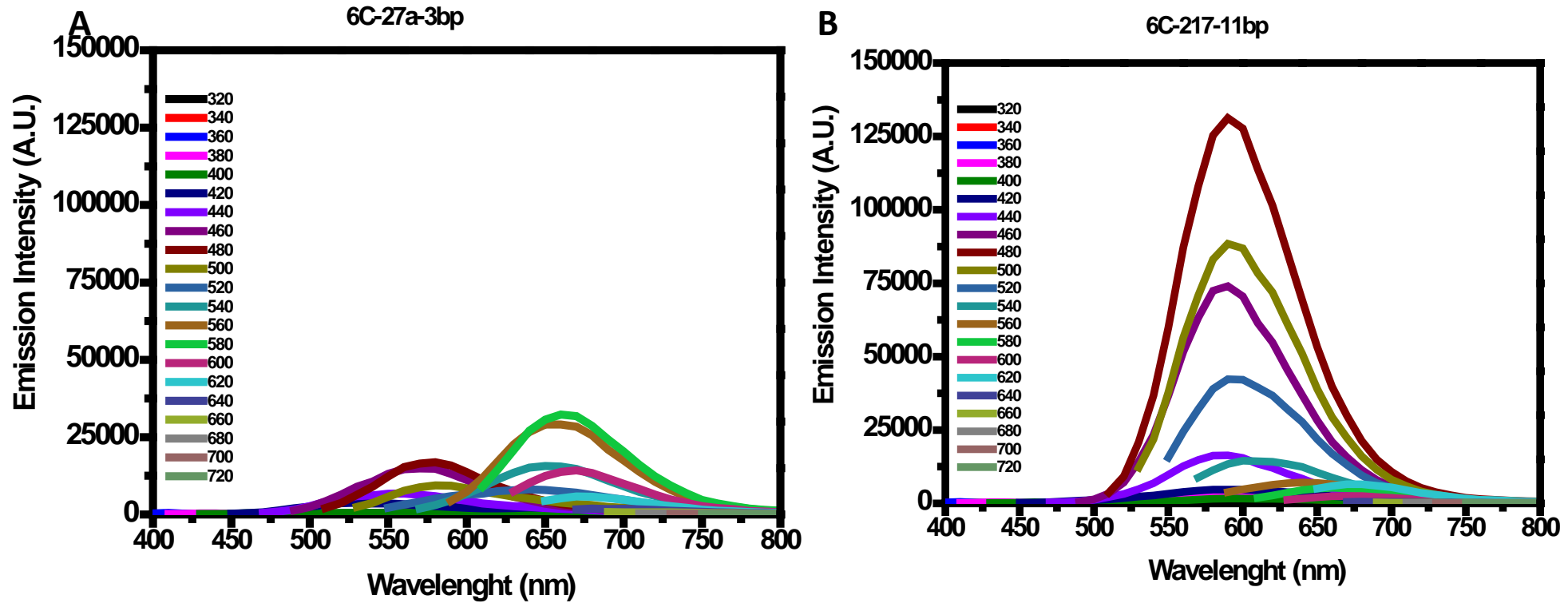
Day-1



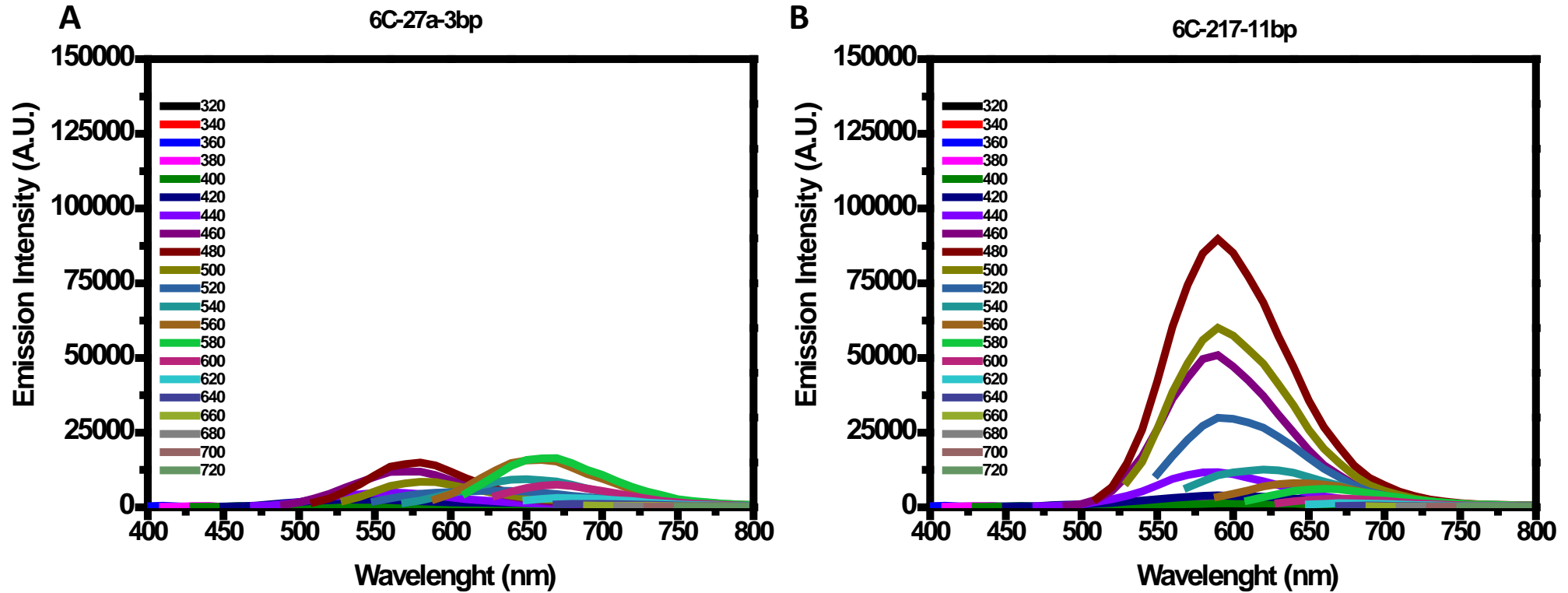
Supplementary Figure 3. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 24hr post-synthesis referred to as Day 1.



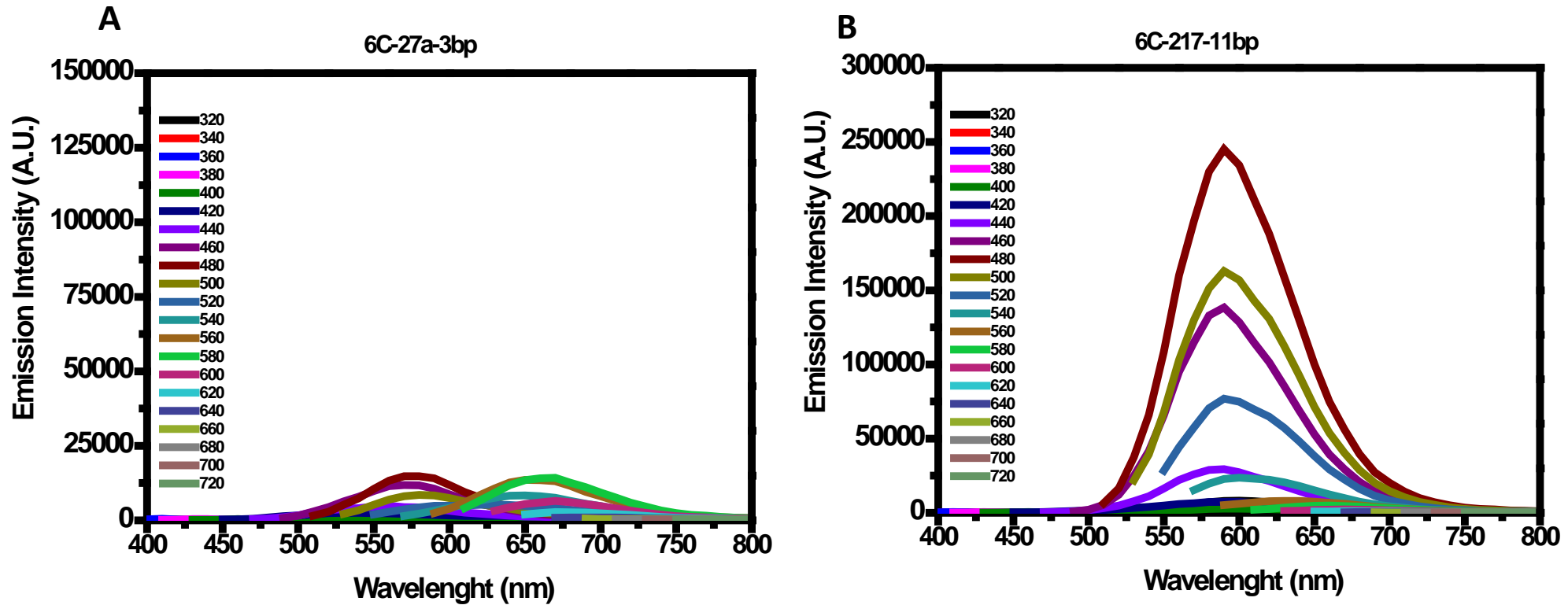
Supplementary Figure 4. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 2 days post-synthesis.



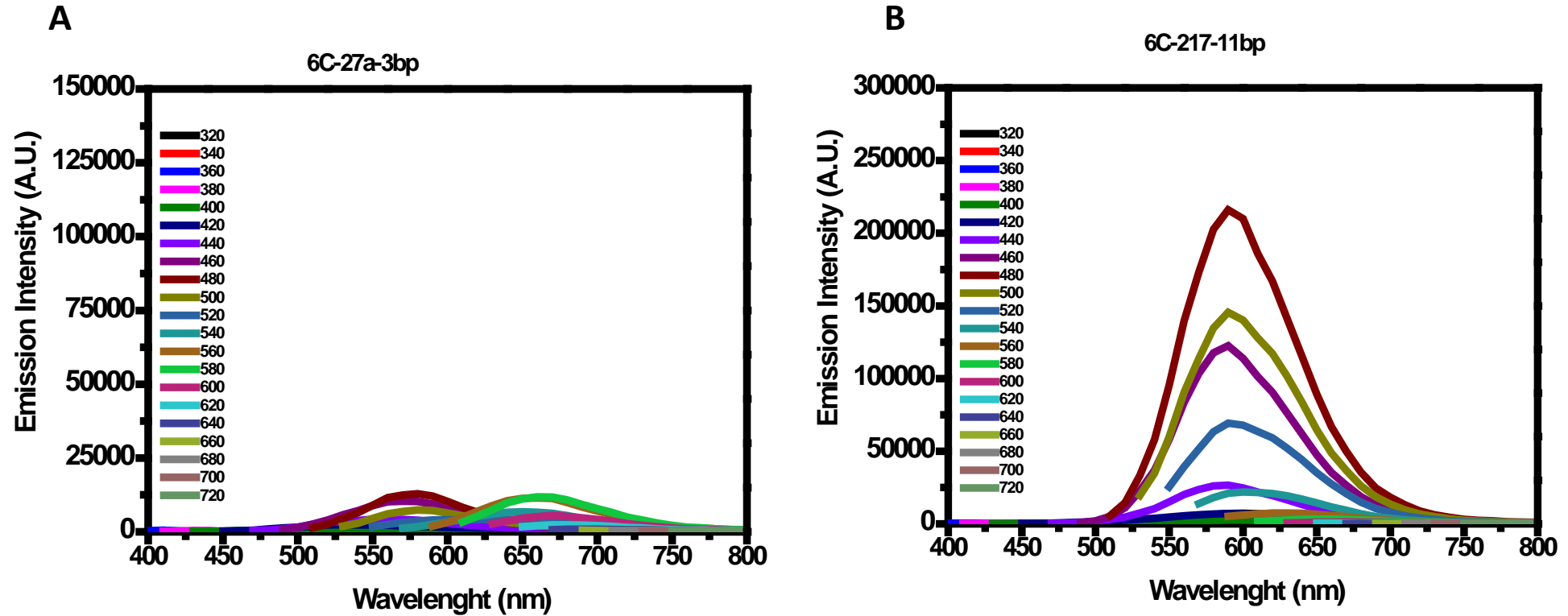
Supplementary Figure 5. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 4 days post-synthesis.



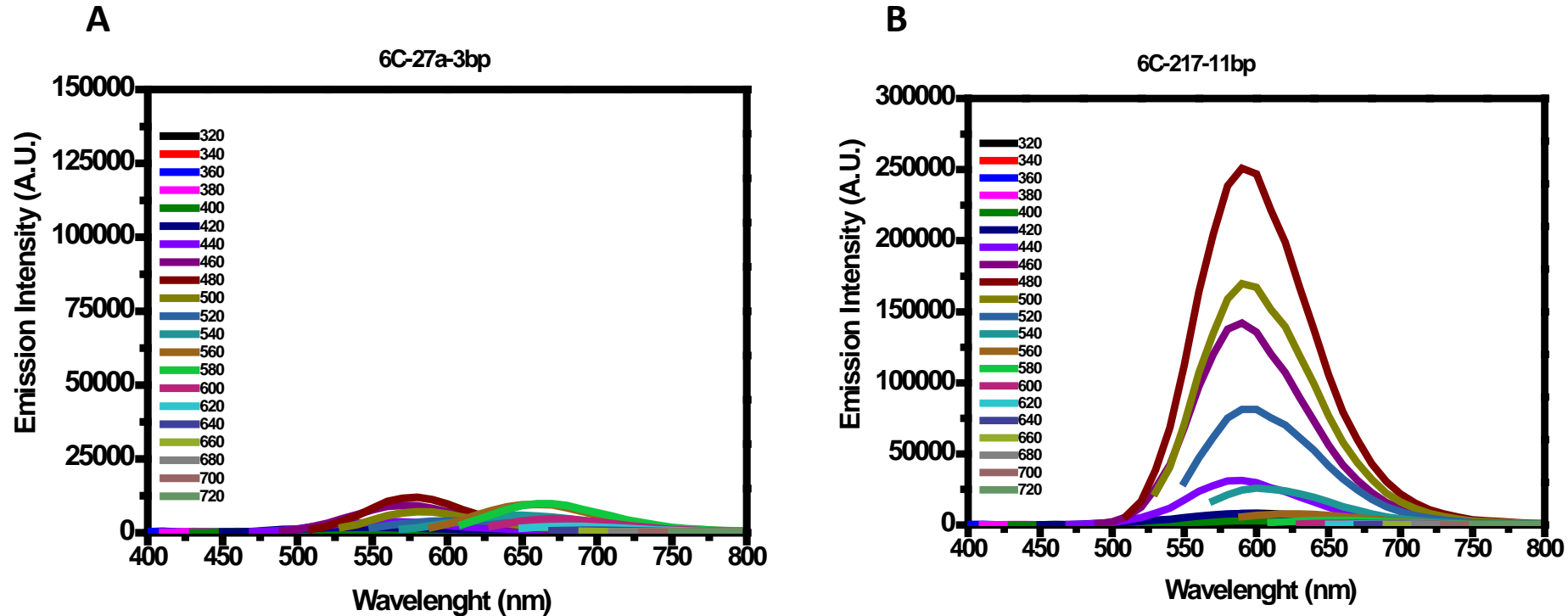
Supplementary Figure 6. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 8 days post-synthesis.



Supplementary Figure 7. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 11 days post-synthesis.



Supplementary Figure 8. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 18 days post-synthesis.



Supplementary Figure 9. Emission spectra of (A) 6C-27a-3bp/ AgNCs and (B) DNA 6C-217-11bp/AgNCs. The spectra were recorded by exciting from 300-720 nm in 20 nm steps after 23 days post-synthesis.